Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 12938-003001

Application No. 09/812,940

Information Disclosure Statement by Applicant (Use several sheets if necessary) Applicant Huan-Yin Lan-Hargest et al.

Filing Date
March 27, 2001

Group Art Unit

(37 CFR §1.98(b))

U.S. Patent Documents Examiner Desig. Patent Filing Date Initial ID Number Issue Date Patentee Class Subclass If Appropriate PAZ 6,147,224 AA11-14-2000 Vuligonda et al. 6,124,495 AB 09-26-2000 Neiss et al. AC 6,110,970 08-29-2000 Nudelman et al. AD 6,110,955 08-29-2000 Nudelman et al. AE 6,110,697 08-29-2000 Dulski et al. AF 6,083,984 07-04-2000 Brusilow 6,071,923 06-06-2000 Nudelman et al. AG 6,068,987 05-30-2000 Dulski et al. AΗ ΑI 6,060,510 05-09-2000 Brusilow 04-04-2000 Berge et al. ΑJ 6,046,237 ΑK 03-28-2000 6,043,389 Nudelman et al. AL 03-14-2000 6,037,367 Christensen, IV et al. 6,030,993 02-29-2000 Jew et al. AM AN 6,004,988 12-21-1999 Amberg et al. 12-14-1999 AO 6,001,877 Konno et al. AP 5,998,654 12-07-1999 Boehm et al. 11-16-1999 Klaus et al. 5,986,131 AQ 5,968,979 AR 10-19-1999 Brusilow AS 5,932,606 08-03-1999 Isaacs et al. 5,910,606 06-08-1999 AT Foricher et al. AU 5,910,508 06-08-1999 Thoreau et al. AV 5,908,868 06-01-1999 Buck et al. AW 5,891,737 04-06-1999 Baindur et al. AX 5,883,124 03-16-1999 Samid AY 5,804,601 09-08-1998 Kato et al. AZ5,795,914 08-18-1998 Konno et al. BA 5,753,704 05-19-1998 Lindner et al.

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Date Considered

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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(37 CFR §1.98(b))

Filing Date March 27, 2001

U.S. Patent Documents							
Examine Initial	r Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
PM	ВВ	5,710,178	01-20-1998	Samid			
1	BC	5,705,167	01-06-1998	Bernardon et al.		"	
	BD	5,696,162	12-09-1997	Chandraratna			
	BE	5,688,819	11-18-1997	Woodward et al.			
T	BF	5,677,320	10-14-1997	Chandraratna			
	BG	5,672,746	09-30-1997	Nau et al.			
	ВН	5,643,949	07-01-1997	Van Scott et al.			
	BI	5,607,978	03-04-1997	Woodward et al.			
	BJ	5,602,135	02-11-1997	Chandraratna			
	BK	5,547,988	08-20-1996	Yu et al.			
	BL	5,541,155	07-30-1996	Leone-Bay et al.			
	BM	5,525,629	06-11-1996	Crimmin et al.			
	BN	5,486,540	01-23-1996	Andrews			
	ВО	5,475,022	12-12-1995	Chandraratna			
	BP	5,466,718	11-14-1998	Nakatsu et al.			
	BQ	5,420,160	05-30-1995	Gayer et al.			
	BR	5,385,942	01-31-1995	Abe et al.			
	BS	5,369,108	11-29-1994	Breslow et al.			
	BT	5,320,833	06-14-1994	Deckers et al.			
	BU	5,272,180	12-21-1993	Hashimoto et al.			
	BV	5,264,424	11-23-1993	Della Valle et al.			
	BW	5,246,955	09-21-1993	Skibo et al.			
	BX	5,244,922	09-14-1993	Burzynski			
	BY	5,235,068	08-10-1993	Minai et al.			
	BZ	5,141,959	08-25-1992	Carroll et al.			
(CA	5,112,846	05-12-1992	Belliotti et al.			
PAZ	- СВ	5,091,569	02-25-1992	Matsumoto et al.			

Examiner Signature.

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Application No. 09/812,940

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Huan-Yin Lan-Hargest et al.

Filing Date March 27, 2001 Group Art Unit

(37 CFR §1.98(b))

U.S. Patent Documents Patent Examiner Desig. Filing Date Number Initial ID Issue Date Patentee Class Subclass If Appropriate PAL CC Collins et al. 5,089,524 02-18-1992 CD 5,084,214 01-28-1992 Kita et al. 12-24-1991 Belliotti et al. CE 5,075,330 **CF** 5,064,860 11-12-1991 Mueller et al. CG 5,028,629 07-02-1991 Hite et al. CH 4,985,436 01-15-1991 Pettit CI 4,981,865 01-01-1991 Belliotti et al. 4,950,467 CJ 08-21-1990 Phalangas et al. CK 4,833,257 05-23-1989 Pettit et al. CL 4,820,828 04-11-1989 Demers et al. CM 4,791,133 12-13-1988 Djuric et al. CN 4,753,934 06-28-1988 Nickl et al. 03-15-1988 Zusi et al. CO 4,731,382 Loev et al. CP 4,722,939 02-02-1988 CQ 4,709,076 11-24-1987 Bombardelli et al. CR 4,699,920 10-13-1987 Skuballa et al. CS 4,638,011 01-20-1987 Das Summers, Jr. CT 4,623,661 11-18-1986 CU 4,621,099 11-04-1986 Loev et al. CV 4,619,945 10-28-1986 Loev et al. CW 4,608,390 08-26-1986 Summers, Jr. CX 4,607,053 08-19-1986 Karanewsky et al. CY 4,605,669 08-12-1986 Summers, Jr. 08-05-1986 DA 4.604,407 Haslanger et al. Но DB 4,564,476 01-14-1986 DC 4,545,984 10-08-1985 Möller et al. DD Loev et al. カムラ 4,534,979 08-13-1985

Examiner Sig	nature
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Date Considered

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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12938-003001	Application No. 09/812,940	
	cl sure Statement oplicant	Applicant Huan-Yin Lan-Hargest et al.		
(Use several st (37 CFR §1.98(b))	neets if necessary)	Filing Date March 27, 2001	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
1/12	DE	4,505,930	03-19-1985	Loev et al.			
1	DF	4,504,494	03-12-1985	Grollier et al.			
	DG	4,472,430	09-18-1984	Loev et al.			
	DH	4,440,940	04-03-1984	Shepherd		-	
	DI	4,439,443	03-27-1984	Giroux			
	DJ	4,388,459	06-14-1983	Shepherd			
	DK	4,371,614	02-01-1983	Anderson et al.			
	DL	4,355,168	10-19-1982	Chiusoli et al.			
	DM	4,335,054	06-15-1982	Blaser et al.			
	DN	4,309,407	01-05-1982	Lautenschläger et al.			
	DO	4,309,357	01-05-1982	Chiusoli et al.			
	DP	4,288,253	09-08-1981	Venable			
	DQ	4,258,057	03-24-1981	Bartmann et al.			
	DR	4,211,783	07-08-1980	Shepherd			
	DS	4,193,931	03-18-1980	Loeliger			
	DT	4,188,338	02-12-1980	Bruins et al.			
	DU	4,171,318	10-16-1979	Chan et al.			
	DV	4,130,653	12-19-1978	Giroux et al.			
	DW	4,127,723	11-28-1978	Yankee			
	DX	4,127,722	11-28-1978	Lafon			
	DY	4,116,975	09-26-1978	Klaus et al.			
	DZ	4,113,858	09-12-1978	Hashim			
	EA	4,081,476	03-28-1978	Anderson et al.			
	EB	4,061,656	12-06-1977	Klaus et al.			
	EC	4,048,332	09-13-1977	Adams et al.			
	ED	4,044,149	08-23-1977	Fields et al.			
PAG	EE	4,024,182	05-17-1977	Kathawala			

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if no next communication to applicant.	t in conformance and not considered. Include copy of this form with

Substitute Form PTO-1449 (Mødified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 12938-003001

Application No. 09/812,940

Information DiscI sur Statement by Applicant

(Use several sheets if necessary)

Applicant Huan-Yin Lan-Hargest et al.

Filing Date March 27, 2001

Group Art Unit

(37 CFR §1.98(b))

	U.S. Patent Documents							
Examir Initia	ıl ID	~	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
PAZ	El El	F	4,011,339	03-08-1977	Galantay et al.			
	E	3	3,984,440	10-05-1976	Bollag et al.			·
	E	ŀ	3,978,100	08-31-1976	Fujita et al.			
	Е	I	3,909,353	09-30-1975	Tsuchida et al.			
	E.	J	3,886,278	05-27-1975	Gallo			
	EI	<	3,781,314	12-25-1973	Bollag et al.			
	El		3,755,604	08-28-1973	Gallo			
	EN	Л	3,687,955	08-29-1972	Cerbati et al.			
	Eì	1	3,674,884	07-04-1972	Moritani et al.			
	EC		3,624,127	11-30-71	Shaw et al.			
	El	P	3,551,574	12-29-1970	Frohberger et al.			
	E	2	3,479,396	11-18-1969	Buu-Hoi et al.			
	EI	₹	2,840,586	06-24-1958	Inhoffen			
PAZ) E	S	2,680,755	06-08-1954	Robeson et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Tran: Yes	slation No
PAE	ET	EP 0 199 151	10-29-1986	European				
	EU	EP 0 161 939	11-21-1985	European				
	EV	WO 01/18171	03-15-2001	WIPO				
PAZ	EW	WO 01/38322	05-31-2001	WIPO				

	Other Documents (include Author, Title, Date, and Place of Publication)					
Examiner	Desig.					
Initial	ID	Document				
PARE	EX	Andrews et al., "Anti-malarial effect of histone deacetylation inhibitors and mammalian tumour cytodifferentiating agents", International Journal for Parasitology, 30, pp. 761-768, (2000).				
\	EY	Collins et al., "Oral Sodium Phenylbutyrate Therapy in Homozygous β Thalassemia: A Clinical Trial", Blood, Vol. 85, No. 1, pp. 43-49, (1995).				
PAZ	EZ	Finnin et al., "Structures of a histone deacetylase homologue bound to the TSA and SAHA inhibitors", Nature, Vol. 401, pp 188-193, (1999).				

Examiner Signature	1
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Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 U.S. Department of Commerce (Medified) Patent and Trademark Office Information Disclosure Statement by Applicant (Use several sheets if necessary)

(37 CFR §1.98(b))

U.S. Department of Commerce Attorney's Docket No. 12938-003001

Application No. 09/812,940

Applicant Huan-Yin Lan-Hargest et al.

Filing Date Group Art Unit

	Other	Documents (include Author, Title, Date, and Place of Publication)
Examiner	Desig.	
Initial	ID	Document
PIX	FA Fruehauf et al., "In Vitro Determination of Drug Response: A Discussion of Clinical Applications" Principles & Practice of Oncology, Vol. 7 No. 12, pp. 1-16, (1993).	
	FB	Gore et al., "Modifying histones to tame cancer: clinical development of sodium phenylbutyrate and other histone deacetylase inhibitors", Exp. Opin. Invest. Drugs, 9(12), pp. 2923-2934, (2000).
	FC	Hoffman et al., "A non-isotopic assay for histone deacetylase activity", Nucleic Acids Research, Vol. 27, No. 9, pp. 2057-2058, (1999).
	FD	Kemp et al., "Gene redundancy and pharmacological gene therapy: Implications for X-linked adrenoleukodystrophy", Nature Medicine, Vol. 4, No. 11, pp. 1261-1268, (1998).
	FE	Kim et al., "Oxamflatin is a novel antitumor compound that inhibits mammalian histone deacetylase", Oncogene, Vol. 18, pp. 2461-2470, (1999).
	FF	Marks et al., "Histone Deacetylase Inhibitors: Inducers of Differentiation or Apoptosis of Transformed Cells", Journal of the National Cancer Institute, Vol. 92, No. 15, pp. 1210-1216, (2000).
	FG	Remiszewski et al., "Synthesis and in Vitro SAR of Straight Chain Hydroxamate Histone Deacetylase Inhibitors", Proceedings of the AACR, Vol. 42, No. 4976, (Feb. 27, 2001).
	FH	Rubenstein et al., "In Vitro Pharmacologic Restoration of CFTR-mediated Chloride Transport with Sodium 4-Phenylbutyrate in Cystic Fibrosis Epithelial Cells Containing ΔF508-CFTR", J. Clin. Invest., Vol. 100, No. 10, pp. 2457-2465, (1997).
PIPE	FI	Sandler et al., "Organic Functional Group Preparations", Academic Press, New York and London, Vol. III, pp. 436-437, (1972).
	—FJ—	Saunders et al., Histone deacetylase inhibitors: novel anticancer agents", Exp. Opin. Invest. Drugs, 8(10), pp. 1611-1621, (1999).
PAZ	FK	Taunton et al., "A Mammalian Histone Deacetylase Related to the Yeast Transcriptional Regulator Rpd3p", Science, Vol. 272, pp. 408-411, (1996).

Examipe Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if no	t in conformance and not considered. Include copy of this form with

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Sheet	1	of	1

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12938-003002	Application No.	
Informati n DiscI sure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Hsuan-Yin Lan-Hargest et al.		
		Filing Date December 26, 2001	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Trans Yes	lation No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner	Desig.			
Initial	ID	Document		
PAZ	AC	Patel et al., "Palladium-Catalyzed Arylation of Conjugated Dienes", J. Org. Chem., Vol. 43, No. 26, pp. 5018-5020, (1978).		

Examiner Bignature	Date Considered
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